



The Knowledge Bank:
The Ohio State University's Institutional Repository


Maureen P. Walsh, The Ohio State University Libraries

OSUL's Scholarly Resources Integration Dept. Meeting October 4, 2007

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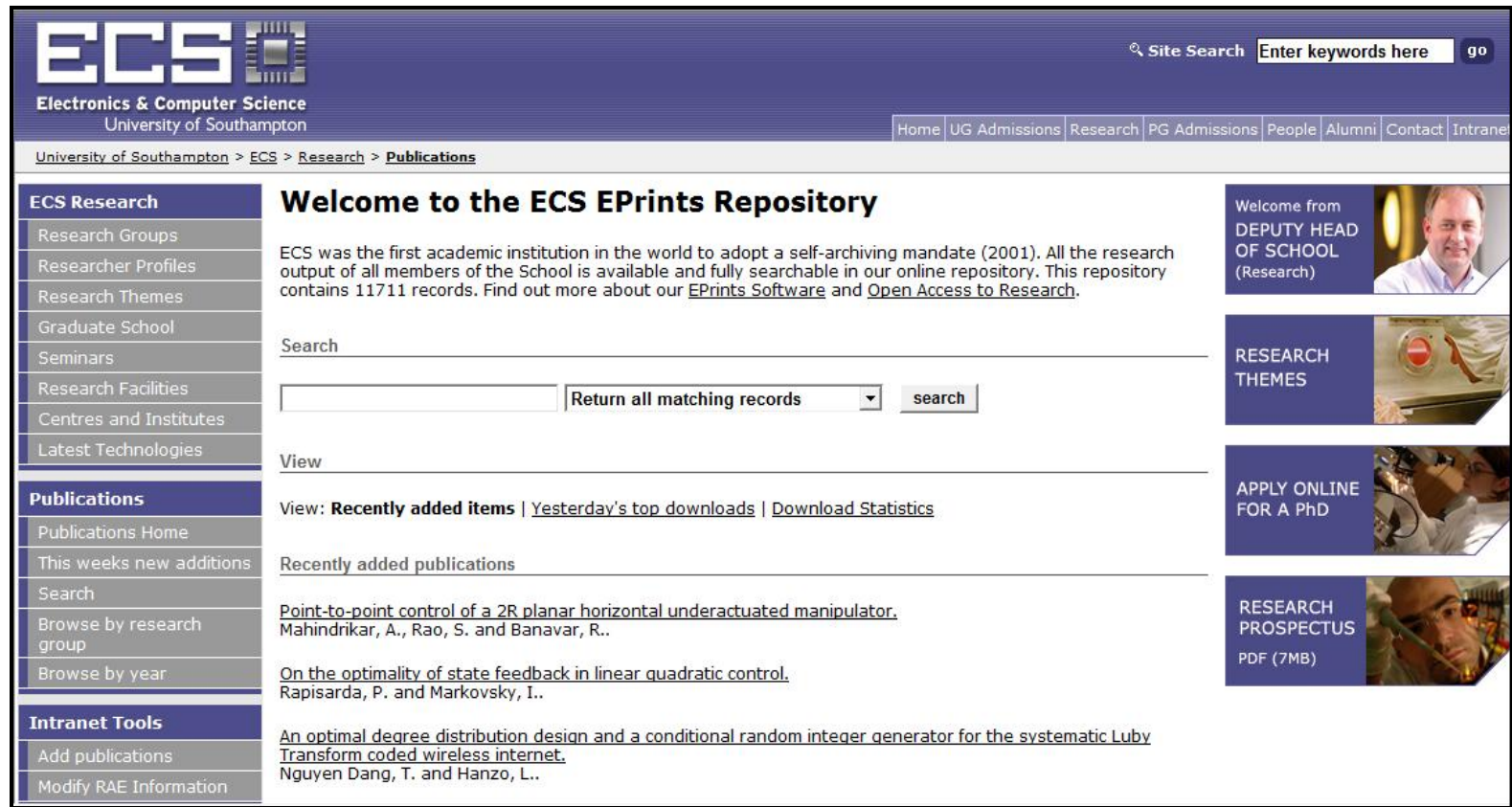
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EPrints



The screenshot shows the ECS EPrints Repository website. The header features the ECS logo and navigation links. The main content area includes a welcome message, a search bar, and a list of recently added publications. The left sidebar contains navigation links for research groups, publications, and intranet tools. The right sidebar features promotional images and links for research themes, online applications, and a research prospectus.

ECS
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University of Southampton

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University of Southampton > ECS > Research > Publications

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- Centres and Institutes
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Intranet Tools

- Add publications
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Welcome to the ECS EPrints Repository

ECS was the first academic institution in the world to adopt a self-archiving mandate (2001). All the research output of all members of the School is available and fully searchable in our online repository. This repository contains 11711 records. Find out more about our [EPrints Software](#) and [Open Access to Research](#).

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Mahindrikar, A., Rao, S. and Banavar, R..

[On the optimality of state feedback in linear quadratic control.](#)
Rapisarda, P. and Markovsky, I..

[An optimal degree distribution design and a conditional random integer generator for the systematic Luby Transform coded wireless internet.](#)
Nguyen Dang, T. and Hanzo, L..

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DSpace at MIT

The screenshot shows the DSpace at MIT website. The header includes the DSpace logo, a link to 'About DSpace Software', and the MIT Libraries logo. The main content area is divided into three columns. The left column contains a search bar, a 'Browse' section with links to Communities & Collections, Titles, Authors, Subjects, and By Date, and a 'Sign on to:' section with links for email updates, My DSpace, and Edit Profile. The middle column, titled 'DSpace at MIT >', contains a welcome message, a list of statistics (over 14,000 MIT Theses added, individual MIT faculty & researchers can create collections), a search box, and a list of communities including Air Transportation Research, Biological Engineering Division, Center for Energy and Environmental Policy Research, and Center for Global Change Science. The right column contains two sections: 'What's in DSpace?...' and 'Is this all of MIT's research?...', both providing information about the repository's content and growth.

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DSpace at MIT >

Welcome to DSpace at MIT, MIT's online institutional repository - built to save, share, and search MIT's digital research materials.

- Over 14,000 [MIT Theses](#) added!
- Individual MIT faculty & researchers, [create](#) your own collections in DSpace.

[More news...](#)

Search

Enter some text in the box below to search DSpace.

Communities in DSpace

Choose a community to browse its collections.

[Air Transportation Research](#)
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[Center for Information Policy Research \(CIPR\)](#)

What's in DSpace?...

MIT Research in digital form, including preprints, technical reports, working papers, theses, conference papers, images, and more.

Is this all of MIT's research?...

No. DSpace is limited to digital research products. For items in print, go to [Barton: MIT Libraries' catalog](#). DSpace is growing rapidly, check back often.

The Public Library of Science (PLOS)

The screenshot shows the PLoS Public Library of Science homepage. The header features the PLoS logo and the text "PUBLIC LIBRARY of SCIENCE". A navigation bar includes links for Home, About PLoS, Open Access, PLoS Journals, Support PLoS, News & Events, Posters & Media, and Search. A sidebar on the left contains a menu with links to Core Principles, Board of Directors, Staff, FAQ, and Testimonials. The main content area features a quote from the Deccan Herald dated March 16, 2006, praising PLoS as a resource for scientists, doctors, patients, teachers, students, policy makers, and parents. Below the quote is a section titled "Open Access" explaining that everything published is freely available online. To the right, there is a "PLOS JOURNALS" section listing various journals like PLoS Biology, PLoS Medicine, and PLoS ONE. Below that is a "PLOS BLOG" section with a featured article titled "Should patients tell researchers what to do?". At the bottom, there are sections for "FROM THE JOURNALS" and a "JOIN US" button.

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BMC Neuroscience has published a supplement of reviews: "The chemical senses: recent advances and new promises" edited by Steven D Munger.
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A growing number of institutions and libraries now provide excellent support material to ensure that researchers know

Research highlights Open Access
Mapping global diversity of protozoans
BMC Evolutionary Biology 2007, 7:162
Analysis using a fast-evolving genetic marker shows that geographic dispersal in microbes is not fundamentally different from macro-organisms as some taxa show restricted or patchy distributions while others are clearly cosmopolitan.
Smoky aeroplane cabins: risk to respiratory health
Environmental Health 2007, 6:28
Whilst smoking in aeroplanes is no longer allowed, increased flight time in smoky aeroplane cabins significantly raised the incidence of respiratory tract diseases in non-smoking flight attendants, supporting the current implementation of clean indoor air policies.
Improved technique enhances electrophoresis efficiency
Proteome Science 2007, 5:18
Field-inversion gel electrophoresis (FIGE) can be a powerful protein separation tool, increasing the efficiency of electrophoresis by enhancing local protein concentrations. The technique improves protein identification, and can be implemented with minimal additional lab equipment.
Signaling model for breast cancer proliferation
Breast Cancer Research 2007, 9:R63

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Sign the petitions:

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- **Petition to the European Commission to demonstrate support for Open Access** - go to the [petition site](#)

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Institutional Repositories

Institutional Repository

- "... a set of services ... for the management and dissemination of digital materials created by the institution and its community members."
- "... an organizational commitment to the stewardship of ... digital materials, including long-term preservation where appropriate, as well as organization and access or distribution."

Source: Lynch, Clifford. "Institutional Repositories: Essential Infrastructure for Scholarship in the Digital Age." *ARL Bimonthly Report*, No. 226, February 2003. <http://www.arl.org/newsltr/226/ir.html> Retrieved 09-10-2007

The Ohio State University's Institutional Repository

KnowledgeBank

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The Knowledge Bank at OSU

Welcome to the Knowledge Bank

The Knowledge Bank is a joint initiative of the [University Libraries](#) and the [Office of the CIO](#). The Knowledge Bank uses DSpace software, developed jointly by [MIT Libraries](#) and [Hewlett-Packard](#)

Communities in Knowledge Bank

Choose a community to browse its collections.

[Accounting Hall of Fame](#)

[American Indian Studies at the Ohio State University](#)

[Art and Science](#)

[Austin E. Knowlton School of Architecture](#)

[Byrd Polar Research Center](#)

[Clusters of Interdisciplinary Research on International Themes \(CIRIT\)](#)

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[Department of Geological Sciences](#)

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Welcome to the Knowledge Bank!

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[OhioLINK](#)
[OhioLINK-ETD Center](#)
[Copyright & IP \(TELRI\)](#)
[Web Media Collective](#)

Mission

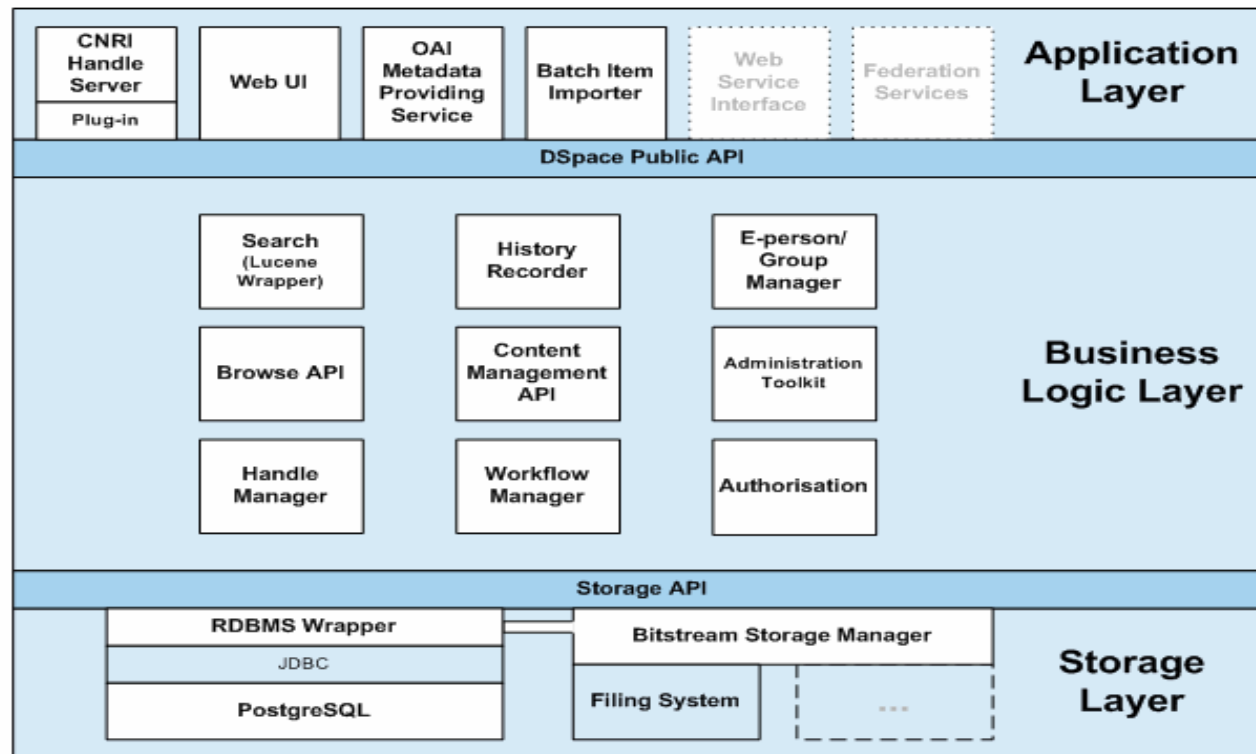
“The mission of the institutional repository of The Ohio State University Knowledge Bank, is to collect, preserve, and share the intellectual output of the faculty, staff, and students that is in a digital format.”

Source: <http://library.osu.edu/sites/kbinfo/policies.html> Retrieved 09-10-2007

Software

DSpace Captures, Indexes, Preserves, and Distributes

Architecture Diagram



Source: <http://libraries.mit.edu/dspace-mit/technology/architecture-diagram.html> Retrieved 09-10-2007

October 4, 2007

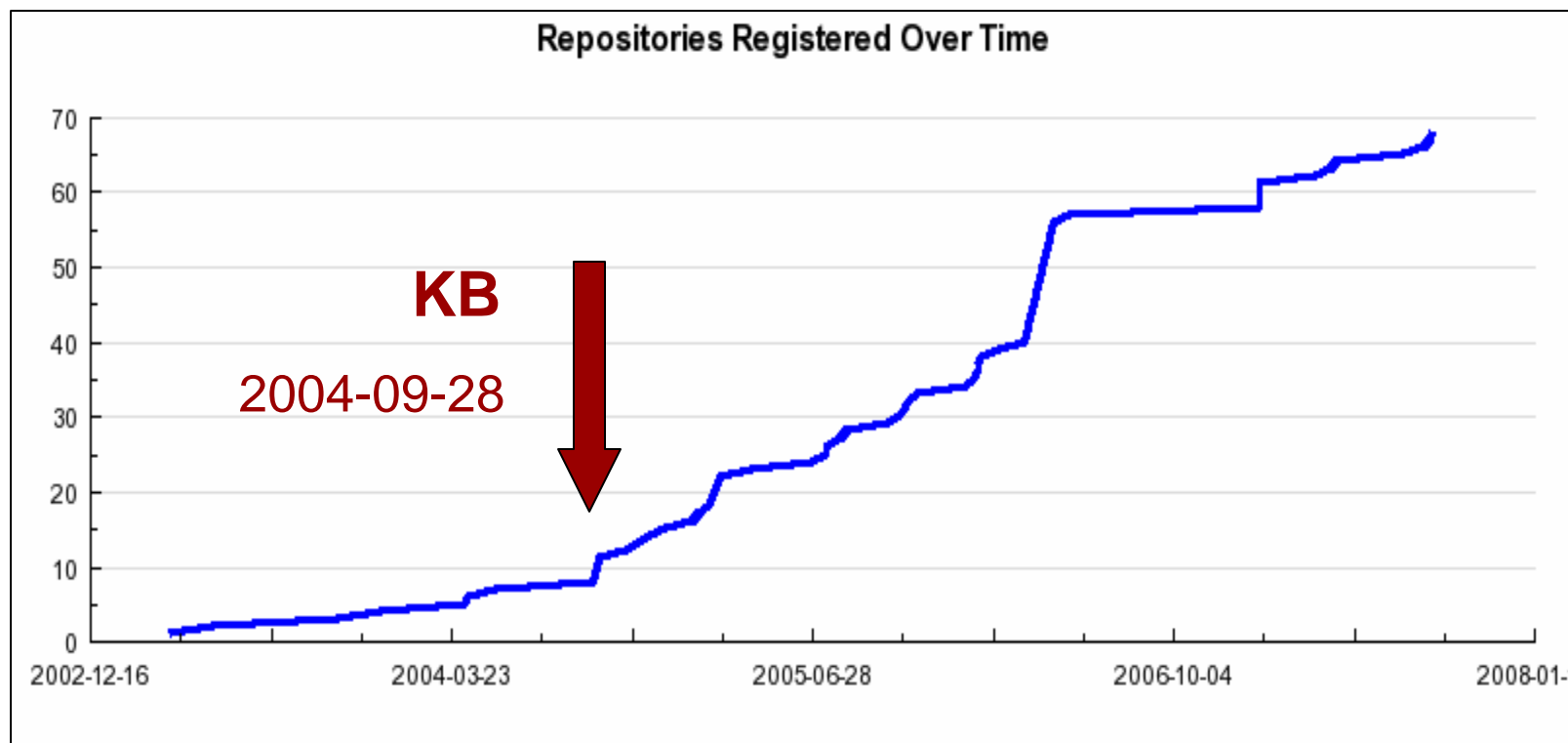
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DSpace

- 275 Installations
- 45 Countries
- 1,220,480 Documents

Source: <http://wiki.dspace.org/index.php/DspaceInstances> Retrieved 09-26-2007

DSpace Repositories in US



Source: ROAR (Registry of Open Access Repositories) <http://roar.eprints.org> Retrieved 09-10-2007

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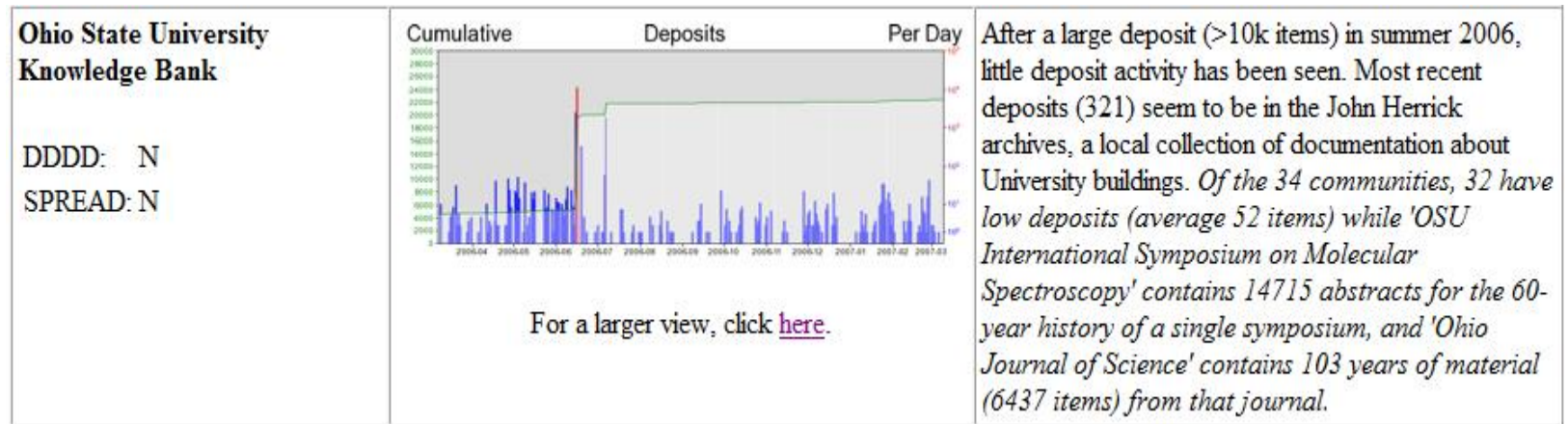
27,338 records

KB Repository Ranking by Deposits

- 2nd of 68 DSpace Repositories in the U.S.
- 7th of 253 DSpace Repositories
- 8th of 219 U.S. Repositories on any System Software
- 38th of 925 Repositories on any System Software
 - University of Michigan: Deep Blue (39,659 records)
 - **Ohio State University: Knowledge Bank (26,949 records)**
 - DSpace at MIT (25,670 records)
 - Georgia Tech's IR: SMARTech (18,375 records)
 - eCommons@Cornell (6990 records)

Source: ROAR (Registry of Open Access Repositories) <http://roar.eprints.org> Retrieved 09-10-2007

Size Isn't Everything



DDDD: double-digit daily deposits

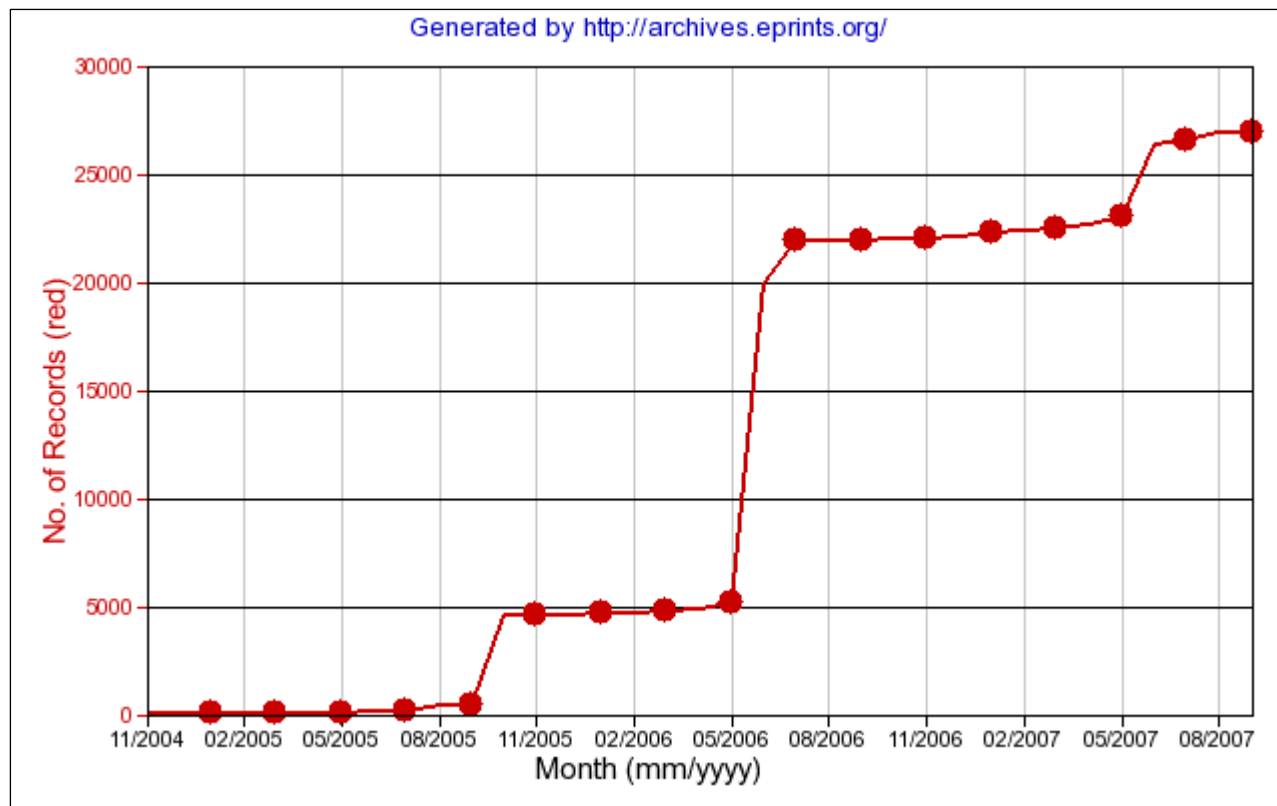
SPREAD: topical spread criteria

Source: Carr, L. & Brody, T. (2007). "Size isn't everything: sustainable repositories as evidenced by sustainable deposit profiles." D-Lib Magazine 13:7/8 (July/Aug.) <http://www.dlib.org/dlib/july07/carr/07carr.html> Retrieved 09-10-2007

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Knowledge Bank Deposits

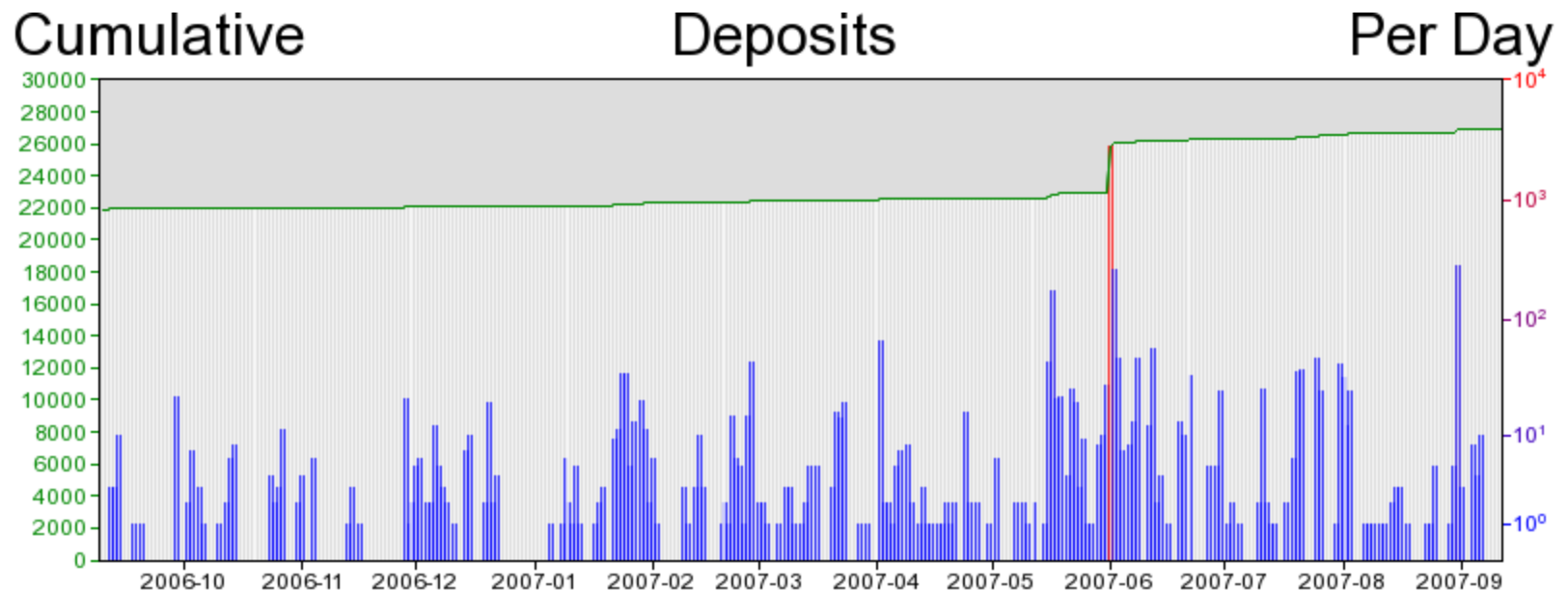


Source: ROAR (Registry of Open Access Repositories) <http://roar.eprints.org> Retrieved 09-10-2007

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KB Daily Deposits in Last Year



139 days of 1-9, 48 days of 10-99, 4 days of 100+

Source: ROAR (Registry of Open Access Repositories) <http://roar.eprints.org> Retrieved 09-10-2007

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Policies

Knowledge Bank Policies

- KB Community & Collection Policies
- KB File Format Support

KB Community & Collection Policies

A Knowledge Bank Community has the right to:

- decide policy regarding content to be submitted
- decide who may submit content
- limit access to content
- customize interfaces to community content

KB Community & Collection Policies

The Knowledge Bank agrees to:

- retain, maintain, and distribute content according to community decisions
- preserve content using accepted preservation techniques
- comply with University policy on issues which affect the KB

KB Community & Collection Policies

The Knowledge Bank retains the right to:

- redistribute or amend metadata for items in the KB
- remove from view items or collections according to KB Withdrawal Policy
- migrate items if format is in danger of obsolescence
- establish quotas and determine service fee structures

Knowledge Bank File Format Support

- We will preserve all bitstreams as-is and allow them to be retrieved
- We will recognize as many file formats as possible
- We will support as many known file formats as possible

Levels of Digital Preservation

- **Bit preservation:** ensures that a file remains exactly the same over time
- **Functional preservation:** the file *does* change over time so that the material continues to be immediately usable in the same way it was originally

Levels of Format Preservation

- **Supported** formats will be functionally preserved using either format migration or emulation techniques
- **Known** formats are those that we can't promise to preserve, such as proprietary or binary formats, but for which migration tools will likely emerge
- **Unsupported** formats are those that we don't know enough about to do any sort of functional preservation

Format Preservation


- For all three levels (supported, known, unsupported) DSpace does bit-level preservation
- The Knowledge Bank attempts to keep the percentage of supported format material as high as possible
- The Knowledge Bank continually monitors formats and techniques to ensure we can accommodate needs as they arise


KB Bitstream Format Registry

MIME Type	Description	Extension	Level
application/marc	MARC	marc, mrc	supported
application/mathematica	Mathematica	ma	known
application/msword	Microsoft Word	doc	known
application/octet-stream	Unknown	(anything not listed)	unsupported
application/ogg	Ogg Media Type	ogg, OggS	known
application/pdf	Adobe PDF	pdf	supported
application/postscript	Postscript	ps, eps, ai	supported
application/sgml	SGML	sgm, sgml	known
application/vnd.ms-excel	Microsoft Excel	xls	known
application/vnd.ms-powerpoint	Microsoft Powerpoint	ppt	known
application/vnd.ms-project	Microsoft Project	mpp, mpx, mpd	known
application/vnd.visio	Microsoft Visio	vsd	known
application/wordperfect5.1	WordPerfect	wpd	known
application/x-dvi	TeXdvi	dvi	known
application/x-filemaker	FMP3	fm	known
application/x-latex	LateX	latex	known
application/x-photoshop	Photoshop	psd, pdd	known
application/x-tex	TeX	tex	known

MIME Type	Description	Extension	Level
audio/x-aiff	AIFF	aiff, aif, aifc	supported
audio/basic	audio/basic	au, snd	known
audio/x-mpeg	MPEG Audio	mpa, abs, mpeg	known
audio/x-pn-realaudio	RealAudio	ra, ram	known
audio/x-wav	WAV	wav	known
image/gif	GIF	gif	supported
image/jpeg	JPEG	jpeg, jpg	supported
image/png	PNG	png	supported
image/tiff	TIFF	tiff, tif	supported
image/x-ms-bmp	BMP	bmp	known
image/x-photo-cd	Photo CD	pcd	known
text/html	HTML	html, htm	supported
text/plain	Text	txt	supported
text/richtext	Rich Text Format	rtf	supported
text/xml	XML	xml	supported
video/mpeg	MPEG	mpeg, mpg, mpe	known
video/quicktime	Video Quicktime	mov, qt	known

Preservation Support Level Advice at Ingest





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<input type="radio"/>	OHIODIG Presentation.ppt	387072 bytes	None Change	Microsoft Powerpoint (known) Change	Remove
<input type="radio"/>	OHIODIG Presentation.xps	55603 bytes	None Change	XPS (unsupported) Change	Remove

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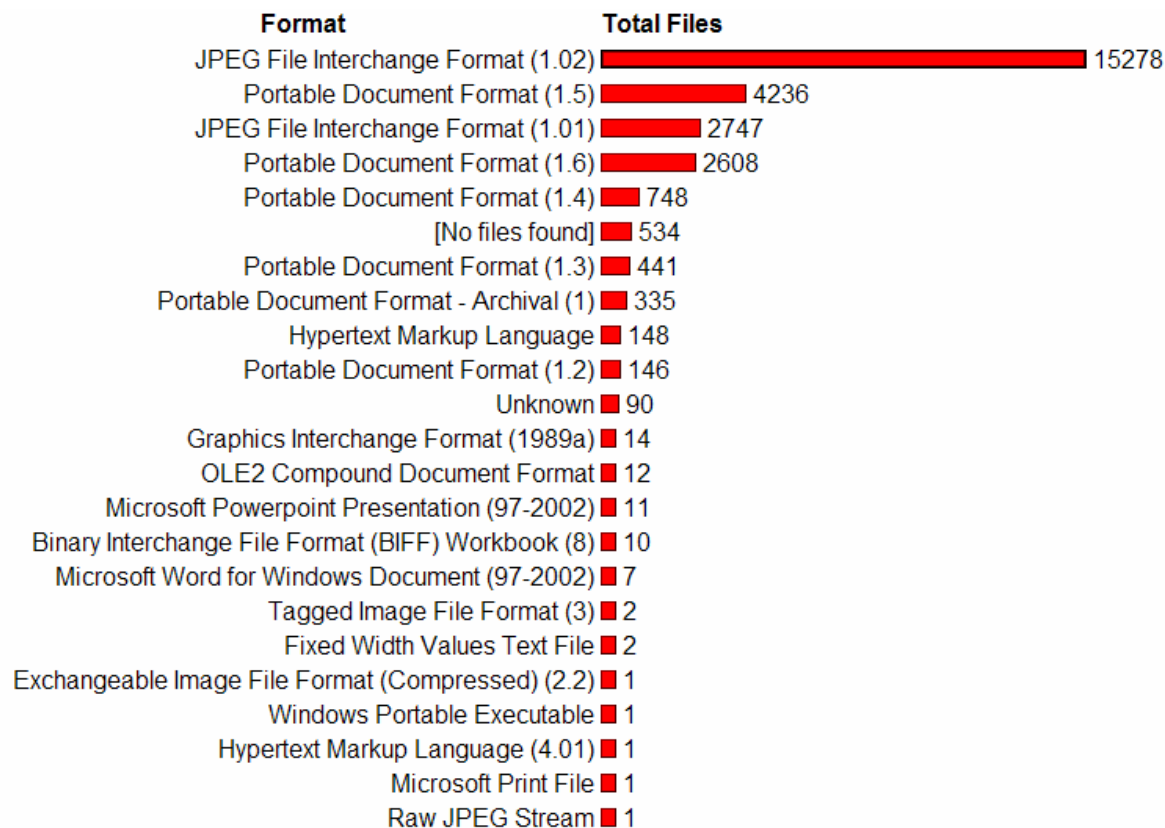
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File Format Profile for Stored Objects*



*Excludes files not hosted on the same server as the OAI interface and files over 2 megabytes in size.

Source: ROAR (Registry of Open Access Repositories) <http://roar.eprints.org> Retrieved 09-10-2007

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Non-Supported Files in the KB – MS PPT

Microsoft Powerpoint Presentation (97-2002) format.

Record Identifier	URL	Date
oai:kb.osu.edu:1811/150	/dspace/bitstream/1811/150/2/Tull_wilsworld.ppt	2006-05-14 16:53:16
oai:kb.osu.edu:1811/183	/dspace/bitstream/1811/183/1/Potterylecture.ppt	2006-05-14 16:53:17
oai:kb.osu.edu:1811/202	.../bitstream/1811/202/1/Learning+Group+report.ppt	2006-05-14 16:53:17
oai:kb.osu.edu:1811/270	/dspace/bitstream/1811/270/5/ALAO_workshop.ppt	2006-05-14 16:53:22
	/dspace/bitstream/1811/270/2/LO_activity.pdf	2006-05-14 16:53:22
	Portable Document Format (1.4)	
	/dspace/bitstream/1811/270/3/LO_resources.pdf	2006-05-14 16:53:22
	Portable Document Format (1.4)	
	/dspace/bitstream/1811/270/4/LO_EvalTool.pdf	2006-05-14 16:53:22
	Portable Document Format (1.4)	
oai:kb.osu.edu:1811/682	/dspace/bitstream/1811/682/1/ALAO-TSIG20050304.ppt	2006-05-14 16:53:42
oai:kb.osu.edu:1811/683	/dspace/bitstream/1811/683/1/ALAO+Presentation.ppt	2006-05-14 16:53:42
oai:kb.osu.edu:1811/6024	...ace/bitstream/1811/6024/4/LewisOSU-20060316.ppt	2006-05-14 16:57:43
	/dspace/bitstream/1811/6024/5/Lewis-kbdirect.html	2006-05-14 16:57:43
	Hypertext Markup Language	
oai:kb.osu.edu:1811/24	/dspace/bitstream/1811/24/1/izzo_UD.ppt	2006-05-16 17:00:05
oai:kb.osu.edu:1811/24793	...tream/1811/24793/1/CIL07_black_kilzer_final.ppt	2007-04-17 17:59:51
oai:kb.osu.edu:1811/24817	...1/Creating+Online+Tutorials+%28w+Chinese%29.ppt	2007-04-25 06:07:17
	...ream/1811/24817/2/Creating_Online_Tutorials.pdf	2007-04-25 06:07:17
	Portable Document Format (1.5)	
oai:kb.osu.edu:1811/24818	...1/Developing+Online+Course+%28w+Chinese%29.ppt	2007-04-25 06:09:37
	...tream/1811/24818/2/Developing+Online+Course.pdf	2007-04-25 06:09:37
	Portable Document Format (1.5)	

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Checksum Display

KnowledgeBank

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<input type="radio"/>	OHIODIG Presentation.ppt	387072 bytes	None Change	Microsoft Powerpoint (known) Change	4378754a998be64b06b322e42438e23c (MD5)	Remove
<input type="radio"/>	OHIODIG Presentation.xps	55603 bytes	None Change	XPS (unsupported) Change	5865a8582f34ef77fff339e1516ab2ac (MD5)	Remove

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- Comparing checksums displayed above with checksums worked out on your local computer. They should be exactly the same. [Click here to find out how to do this.](#)

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Next >

Cancel/Save

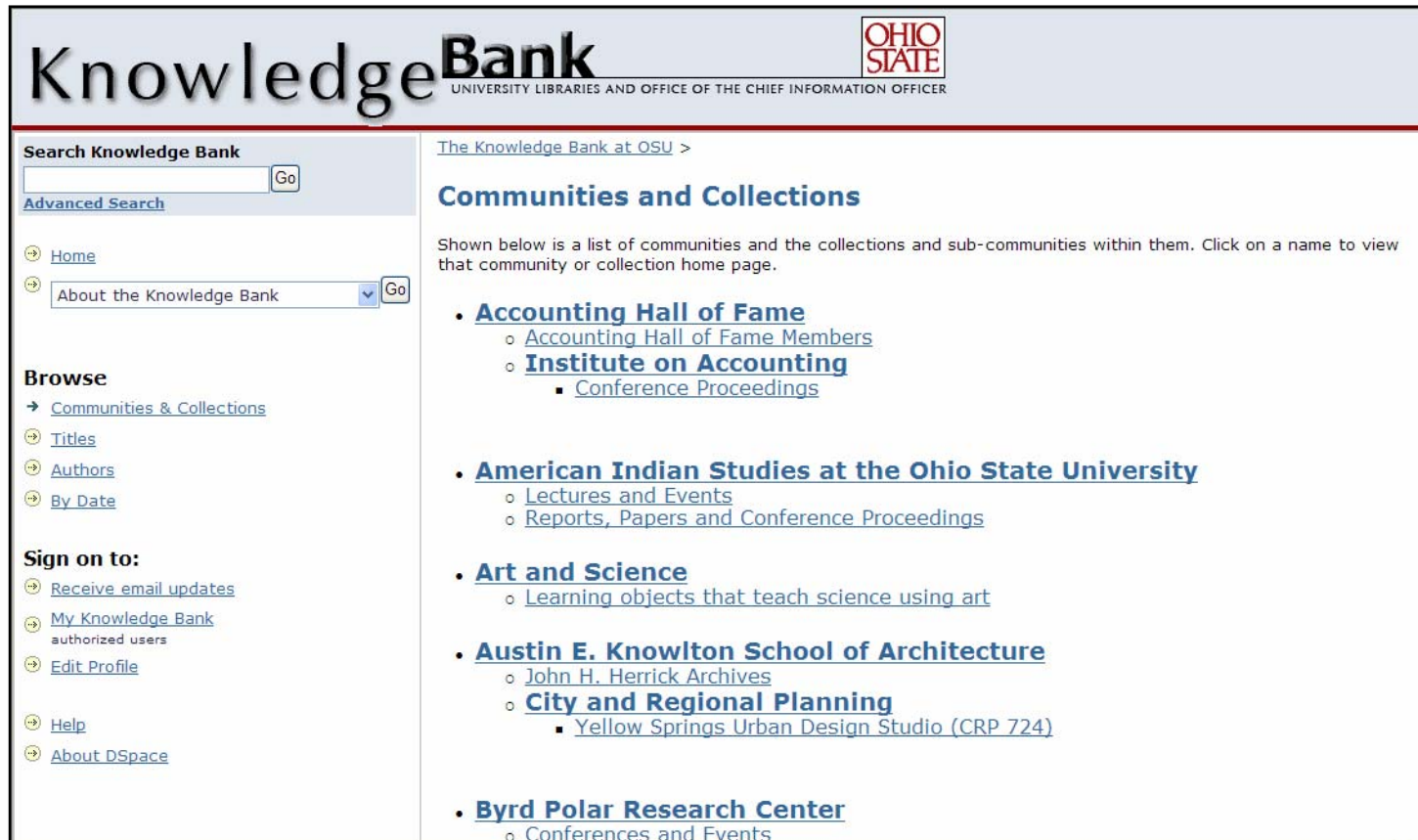
Preservation Metadata

Element	Qualifier	Value	Language	
date	accessioned	2007-09-11T04:31:50Z	<input type="text"/>	Remove
date	available	2007-09-11T04:31:50Z	<input type="text"/>	Remove
description	provenance	Submitted by Maureen Walsh (walsh.260@osu.edu) on 2007-09-11T04:31:49Z No. of bitstreams: 1	en	Remove
description	provenance	OHIDIG20070914.pdf: 575696 bytes, checksum: 04c2b2f1a2a75d161403d167f5f1fbb8 (MD5) Previous issue date: 2007-09-14	en	Remove
format	extent	575696 bytes	<input type="text"/>	Remove
format	mimetype	application/pdf	<input type="text"/>	Remove

Primary Bitstream	Name	Source	Description	Format	User Format Description	
	OHIDIG20070914.pdf.txt	Written by MediaFilter.org	Extracted text	5 (Text)	<input type="text"/>	View Remove
	license.txt	Written by org.dspace.cor		2 (License)	<input type="text"/>	View Remove
<input type="radio"/>	OHIDIG20070914.pdf	OHIDIG20070914.pdf		3 (Adobe PDF)	<input type="text"/>	View Remove

39 Communities

Knowledge Bank Communities



The screenshot shows the Knowledge Bank website interface. The header features the "KnowledgeBank" logo and the Ohio State University logo, with the text "UNIVERSITY LIBRARIES AND OFFICE OF THE CHIEF INFORMATION OFFICER" below the logo. The main content area is titled "Communities and Collections" and lists several communities and their sub-communities. The left sidebar contains a search bar, a "Browse" section with links to "Communities & Collections", "Titles", "Authors", and "By Date", and a "Sign on to:" section with links to "Receive email updates", "My Knowledge Bank", "Edit Profile", "Help", and "About DSpace".

KnowledgeBank
UNIVERSITY LIBRARIES AND OFFICE OF THE CHIEF INFORMATION OFFICER

Search Knowledge Bank
[Search Box] [Go]
[Advanced Search](#)

[Home](#)
About the Knowledge Bank [Go]

Browse
→ [Communities & Collections](#)
→ [Titles](#)
→ [Authors](#)
→ [By Date](#)

Sign on to:
→ [Receive email updates](#)
→ [My Knowledge Bank](#)
authorized users
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Communities and Collections

Shown below is a list of communities and the collections and sub-communities within them. Click on a name to view that community or collection home page.

- **[Accounting Hall of Fame](#)**
 - [Accounting Hall of Fame Members](#)
 - **[Institute on Accounting](#)**
 - [Conference Proceedings](#)
- **[American Indian Studies at the Ohio State University](#)**
 - [Lectures and Events](#)
 - [Reports, Papers and Conference Proceedings](#)
- **[Art and Science](#)**
 - [Learning objects that teach science using art](#)
- **[Austin E. Knowlton School of Architecture](#)**
 - [John H. Herrick Archives](#)
 - **[City and Regional Planning](#)**
 - [Yellow Springs Urban Design Studio \(CRP 724\)](#)
- **[Byrd Polar Research Center](#)**
 - [Conferences and Events](#)

Community and Collection Request

KnowledgeBank
UNIVERSITY LIBRARIES AND OFFICE OF THE CHIEF INFORMATION OFFICER



Community and Collection Set up Form

[Section I. Community web page](#)[Return to Top](#)

Name of Community (required):

[Show/Hide Explanation](#)

Introductory text (required):

[Show/Hide Explanation](#)

Copyright text (optional):

[Show/Hide Explanation](#)

Side bar text (optional):

[Show/Hide Explanation](#)

Community and Collection Request

```
community_name: Ohio State University Extension

community_intro: An arm of The Ohio State University under the College of Food, Agricultural and Environmental Sciences, OSU Extension
has offices in all 88 Ohio counties. Real people with real solutions who deliver the knowledge of the university directly to you in your
community. From 4-H youth club members to Master Gardener volunteers, from rural Appalachia to downtown Cleveland, OSU Extension
offers solutions to better your life. With OSU Extension, you have direct access to information and research from the Ohio Agricultural
Research and Development Center, Ohio State's College of Food, Agricultural and Environmental Sciences, other OSU colleges and other
universities.

community_copyright:

community_sidebar: Related Sites (bolded): OSU Extension <http://extension.osu.edu> Ohioline <...>College <...>

subcommunity_name: Ohio 4_H Youth Development

subcommunity_intro: The 4-H Youth Development program creates positive environments for diverse youth and adults to reach their fullest
potential as capable, competent, caring, and contributing citizens. Youth between the ages of 5-19 are eligible to participate in programs and
activities organized by professional staff and adult/teen volunteers.

subcommunity_copyright:

subcommunity_sidebar: Related Sites (bolded): Ohio 4-H <http://www.ohio4h.org/>

collection_name: Curriculum

collection_introduction: Instructional materials developed by Ohio 4-H for use in Ohio K-12 classrooms.

collection_copyright:

collection_sidebar:

collection_license:

collection_provenance:

collection_administrators:

workflows:
```

Community Metadata Application Profile

KB OSU Press Publications CORE ELEMENT SET		
ELEMENT NAME	DEFINITION	EXAMPLE
Title	Title of book	Faith and action : a history of the Archdiocese of Cincinnati, 1821-1996
Creator(s)	Author(s) of book [MARC fields 100 and 700. Use form on catalog record]	Fortin, Roger A. (Roger Antonio), 1940-
Contributor(s)	Other contributors [MARC fields 110, 111, 710, 711. Use form on catalog record]	
Date of Issue	Publication year	2002
Publisher	Publisher	Ohio State University Press
Identifiers.ISBN	ISBN	0814209041
Identifiers.Other	OCLC Number [precede no. by: OCLC#]	OCLC #49663955
Identifiers.Other	LCCN [precede no. by LCCN]	LCCN 2002005665
Description dc.description	Extent of print item	xvii, 489 p. : ill. ; 23 cm
Language	Language(s) of the intellectual content	English
Type	Work type	book
Abstract dc.description.abstract	Abstract, if available	
Contents dc.description.tableofcontents	Contents. For example, TOC	The founding bishop : Edward Dominic Fenwick -- Laying a more secure foundation -- A new bishop for a growing diocese -- Immigrants and the growth of the diocese -- The local church in a non-Catholic society -- Religious and social issues -- The diocese under stress -- Catholic education and charitable works -- Religious and social issues -- Catholic action and diocesan growth -- Social issues -- Catholic education -- Impact of the Second Vatican Council -- Changes in the local church -- The post-Vatican II Archdiocese of Cincinnati
Series	Series title	Urban life and urban landscape series
Subjects. Keywords dc.subject	Keywords to enhance subject headings, if obvious	
Subjects (LCSH) dc.subject.lcsh	Subject heading (LCSH)	Catholic Church. Archdiocese of Cincinnati (Ohio) -- History

J:\Knowledge Bank\Metadata\Documentation\MAPs\OSU Press Publications MAP.doc
Last updated: 9-27-2007 - mpw

Customized Submission Forms

1381	<hint>Please enter just the month and year of your graduating quarter below.</hint>
1382	<required>You must enter month and year.</required>
1383	</field>
1384	<field>
1385	<dc-element>publisher</dc-element>
1386	<dc-qualifier/>
1387	<repeatable>>false</repeatable>
1388	<label>Publisher</label>
1389	<input-type>onebox</input-type>
1390	<hint>"The Ohio State University" should appear in this field.</hint>
1391	<required>"The Ohio State University" should appear in this field.</required>
1392	</field>
1393	<field>
1394	<dc-element>relation</dc-element>
1395	<dc-qualifier>ispartofseries</dc-qualifier>
1396	<repeatable>true</repeatable>
1397	<label>Degree-Granting Department</label>
1398	<input-type value-pairs-name="honors-departments">dropdown</input-type>
1399	<hint>Please select your degree-granting department(s) from the list below. **If your department is not listed, please select "department is not listed" and enter your department name in the next field.</hint>
1400	<required>Please select your degree-granting department(s) from the list below. **If your department is not listed, please select "department is not listed" and enter your department name in the next field.</required>
1401	</field>
1402	<field>
1403	<dc-element>relation</dc-element>
1404	<dc-qualifier/>
1405	<repeatable>true</repeatable>
1406	<label>Degree-Granting Department (Not Listed Above)</label>
1407	<input-type>onebox</input-type>
1408	<hint>If your degree-granting department is not in the list above, enter your department's name here.</hint>
1409	<required/>
1410	</field>
1411	<field>
1412	<dc-element>type</dc-element>
1413	<dc-qualifier/>
1414	<repeatable>true</repeatable>
1415	<label>Type</label>
1416	<input-type value-pairs-name="common_types">dropdown</input-type>
1417	<hint>Select the type(s) of content you are submitting. To select more than one value in the list, you may have to hold down the "CTRL" or "Shift" key.</hint>
1418	<required/>
1419	</field>
1420	<field>
1421	<dc-element>language</dc-element>

Text Grid Schema/WSDL Authentic Browser

input-forms.xml

Customized Submission Forms

KnowledgeBank

OHIO STATE

UNIVERSITY LIBRARIES AND OFFICE OF THE CHIEF INFORMATION OFFICER

Describe

Describe

Describe

Describe

Upload

Verify

License

License

Complete

Submit: Describe Your Item

Enter your name below.

Last name
e.g. **Smith**

First name(s) + "Jr"
e.g. **Donald Jr**

Author

Enter the name of your thesis advisor(s) below.

Last name
e.g. **Smith**

First name(s) + "Jr"
e.g. **Donald Jr**

Advisor

Add More

Enter the title of your thesis.

Title

Please enter just the month and year of your graduating quarter below.

Quarter Completed

Month: (No Month)

Day:

Year:

"The Ohio State University" should appear in this field.

Publisher

The Ohio State University

Please select your degree-granting department(s) from the list below. **If your department is not listed, please select "department is not listed" and enter your department name in the next field.

Degree-Granting Department

My department is not listed

Accounting and MIS

Aerospace Engineering and Aviation

African American and African Studies

Agricultural, Environmental and Development Economics

Allied Medical Professions

Customized Submission Forms

KnowledgeBank

OHIO STATE

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Describe

Describe

Describe

Describe

Upload

Verify

License

License

Complete

Submit: Describe Your Item

Please fill further information about your submission below.

Enter 4-6 appropriate topic keywords or phrases that describe your submission below.

Submission topic(s) or keywords

Add More

Enter the abstract of your submission below.

Abstract

Please select your academic area college cluster and place from the list below.

Award Statement

The Arts: 1st Place

The Arts: 2nd Place

The Arts: 3rd Place

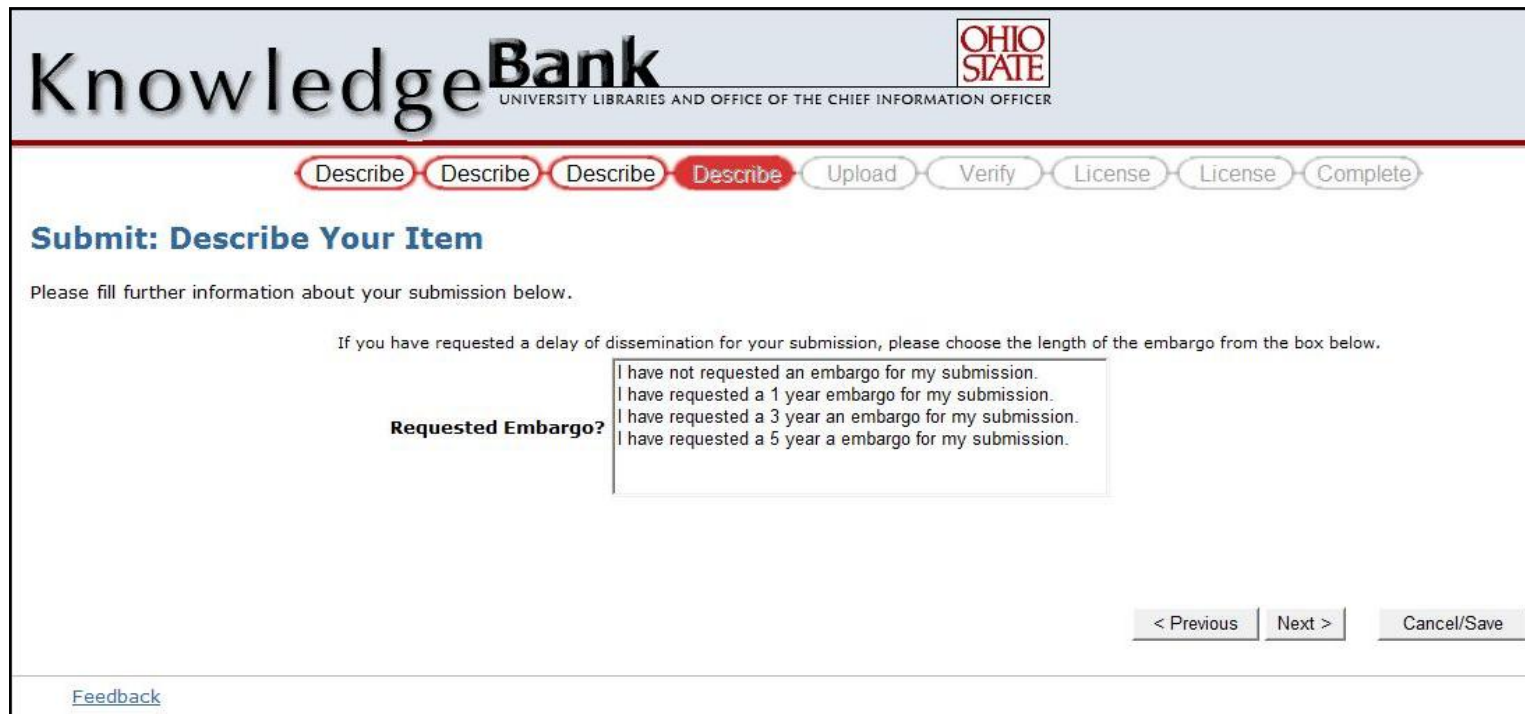
Biological Sciences: 1st Place

Biological Sciences: 2nd Place

Biological Sciences: 3rd Place

If your submission has already been published, please enter the citation below.

Customized Submission Forms



The screenshot shows the 'KnowledgeBank' submission interface. At the top, the 'KnowledgeBank' logo is displayed alongside the Ohio State University logo and the text 'UNIVERSITY LIBRARIES AND OFFICE OF THE CHIEF INFORMATION OFFICER'. Below this, a horizontal navigation bar contains several buttons: 'Describe', 'Describe', 'Describe', 'Describe' (highlighted in red), 'Upload', 'Verify', 'License', 'License', and 'Complete'. The main heading is 'Submit: Describe Your Item'. Below this, a prompt asks the user to 'Please fill further information about your submission below.' A specific instruction states: 'If you have requested a delay of dissemination for your submission, please choose the length of the embargo from the box below.' A label 'Requested Embargo?' is positioned to the left of a dropdown menu. The dropdown menu is open, showing four options: 'I have not requested an embargo for my submission.', 'I have requested a 1 year embargo for my submission.', 'I have requested a 3 year an embargo for my submission.', and 'I have requested a 5 year a embargo for my submission.' At the bottom right, there are three buttons: '< Previous', 'Next >', and 'Cancel/Save'. A 'Feedback' link is located at the bottom left of the form area.

KnowledgeBank
UNIVERSITY LIBRARIES AND OFFICE OF THE CHIEF INFORMATION OFFICER

Describe Describe Describe **Describe** Upload Verify License License Complete

Submit: Describe Your Item

Please fill further information about your submission below.

If you have requested a delay of dissemination for your submission, please choose the length of the embargo from the box below.

Requested Embargo?

- I have not requested an embargo for my submission.
- I have requested a 1 year embargo for my submission.
- I have requested a 3 year an embargo for my submission.
- I have requested a 5 year a embargo for my submission.

< Previous Next > Cancel/Save

[Feedback](#)

Customized Submission Forms

KnowledgeBank

UNIVERSITY LIBRARIES

Describe

Describe

Describe

Submit: Describe Your Item

Please fill in the requested information about your submission below, having to use the mouse each time.

Interviewee

Boudette, Eugene L.

Brecher, Henry H.

Brewer, Max C.

Britton, Maxwell

Brown, Craig W., 1937-

Bull, Colin

Burroughs, Charles A.

Carlson, Gerald F., 1925-

Carpenter, Donald

Cartwright, Gordon

Crory, Frederick E.

Cvijanovich, George

DenHartog, Stephen L.

Dickerson, Richard G.

Dodson, Robert H. T.

Doumani, George A.

El-Sayed, Sayed Z. (Sayed Zakaria), 1926-

Feeney, Robert Earl

Fletcher, J. O. (Joseph O.), 1920-

Enter established form of interviewer name.

Interviewer

Belanger, Dian Olson, 1941-

Brewster, Karen Nichols

Goerler, Raimund E. (Raimund Erhard), 1948-

Kissel, Laura J.

Lay, Lynn B.

Shoemaker, Brian

"Interview" should appear in this field.

Title

Interview

Enter date of interview (month and year or month, day, and year).

Date of Interview

Month: (No Month)

Day:

Year:

"Polar Oral History Program" should appear in this field.

Series Statement

Polar Oral History Program

License

License

Complete

ay to move the cursor to the next input box or button,

Customized Submission Forms

KnowledgeBank

OHIO STATE

UNIVERSITY LIBRARIES AND OFFICE OF THE CHIEF INFORMATION OFFICER

Describe

Describe

Describe

Describe

Upload

Verify

License

License

Complete

Submit: Describe Your Item

Please fill further information about your submission below.

Choose the appropriate personal names from the list.

Subject (Local Names and Expeditions)

Akasofu, Syun-ichi -- Interviews

Anderson, William R., 1921- -- Interviews

Antos, Stanislaus A. -- Interviews

Aughenbaugh, Nolan B. -- Interviews

Austin, Fred L. -- Interviews

Barnes, Stephen -- Interviews

Choose the appropriate corporate names and/or topical terms from the list.

Subject (Topical Terms and Corporate Names)

Aeronautics -- Antarctica

Aeronautics -- Antarctica -- Interviews

Aeronautics -- Arctic regions -- Interviews

Aeronautics -- Polar regions

Aeronautics -- Polar regions -- Interviews

Antarctic Ocean -- Discovery and exploration -- Interviews

Please enter any additional keywords describing the transcript below.

Additional Keywords

Add More

October 4, 2007

OSUL's Scholarly Resources Integration Department Meeting

Customized Submission Forms

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Describe

Describe

Describe

Describe

Upload

Verify

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License

Complete

Submit: Describe Your Item

Please fill further information about your submission below.

Enter the full text of the transcript summary.

Transcript Summary

Please enter text of the "Individuals Mentioned" section.

Individuals Mentioned

Sponsor information for the Polar Oral History Program should appear below.

Sponsor

Funded by a grant from the National Science Foundation.

Enter the number of audio tapes in the first space of this field (e.g. "3" or "7") so that the field reads, for example, "4 audio tapes available in the OSU Archives."

Other available material

audio tapes available in the OSU Archives

Please enter the transcript's record group number below.

Record Group Number

Record Group Number:

Please change the text below if a transcript is restricted.

Restrictions

Restrictions: This item is not restricted.

Customized Submission Templates

Element	Qualifier	Value	Language	
description		Requires RealPlayer to view.		Remove
format	extent	Duration:		Remove
publisher		Ohio State University Libraries		Remove
rights		This object may be copyright-protected. Permission to reuse, publish or reproduce the object must be obtained from the copyright holder.		Remove
contributor.advisor				Add

Customized Submission Templates

KnowledgeBank

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Describe

Describe

Describe

Upload

Verify

License

License

Complete

Submit: Describe Your Item

Please fill in the requested information about your submission below. In most browsers, you can use the tab key to move the cursor to the next input box or button, to save you having to use the mouse each time.

Enter the name(s) of the author(s) of this item below.

Last name
e.g. **Smith**

First name(s) + "Jr"
e.g. **Donald Jr**

Creator

Ohio State University Libraries

Remove This Entry

Add More

Enter the name(s) of any other entity with secondary responsibility for the creation of the resource (e.g., editors, photographers, voice, etc.)

Last name
e.g. **Smith**

First name(s) + "Jr"
e.g. **Donald Jr**

Contributor

Add More

Enter the main title of the item.

Title

QuickNotes:

Please give the date of previous publication or public distribution below. You can leave out the day and/or month if they aren't applicable.

Date of Issue Month: (No Month) Day: Year: 2006

Enter the name of the publisher of the previously issued instance of this item.


Publisher

Ohio State University Libraries

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[Volume 23-24 \(Jan. 1989\) >](#)

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Please use this identifier to cite or link to this item:
<http://hdl.handle.net/1811/28582>

Title: The Pandects of Antiochus: Slavic Text in Transcription

Creators: Popovski, Josif

Keywords: Pandects; Antiochus, monk of Palestine, 7th cent; Moscow, RGB F.228, 205.1; Moscow GIM Voskr.30, Sin 3, Sin 177, Sin 989; Troice Sergieva Lavra F.304 12; St. Petersburg RNB Q.p.I.18; Wien ÖNB, Slav.12

Issue Date: Jan-1989

Publisher: William R. Veder, Slavisch Seminarium, Universiteit van Amsterdam, Postbus 19188, 1000 GD Amsterdam (Holland)


Citation: Polata Knigopisnaia: an Information Bulletin Devoted to the Study of Early Slavic Books, Texts and Literatures, v23-24 (January 1989), 1-202

Abstract: Antiochus, a monk of the Lavra of St. Sabbas near Jerusalem, compiled his Pandects about the year 620 at the behest of his Galatian compatriot Eustatius, abbot of the monastery of Attalina near Ancyra, as a "vademecum" of Christian monastic spirituality, morality and practice. It consists of: an epistle of Antiochus to Eustatius, Prologue, Index, 130 Homilies, Testimony and prayer about the devastation of Jerusalem, another epistle to Eustatius, including a curriculum vitae. His compilation is based on the texts of the Old and New Testament, the Apocrypha and the fathers of the Church available at Jerusalem at the beginning of the 7th century and forms a prime source for their knowledge. His own additions are a prime source for the devastations by the Persians (614) and the state of the Church in Jerusalem. The Slavic translation was made before 950 (according to Kopko, Dumovo and Hahn, in Macedonia), using for the biblical quotations the earliest, probably Methodian

Customized Item Displays

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Please use this identifier to cite or link to this item: <http://hdl.handle.net/1811/28942>

Title: Subjectivity and Nation: The Construction of Self in I Saw Ramallah and Passage to Dusk

Creators: Kim, Philip

Advisor: Berman, Nina

Issue Date: Aug-2007

Abstract: The subjective nature of the construction of the self allows for the two texts which I critique, I Saw Ramallah and Passage to Dusk, to resist notions of an objective nation which imposes standards and norms ultimately resulting in conflicts of difference.

Requested Embargo?: No embargo

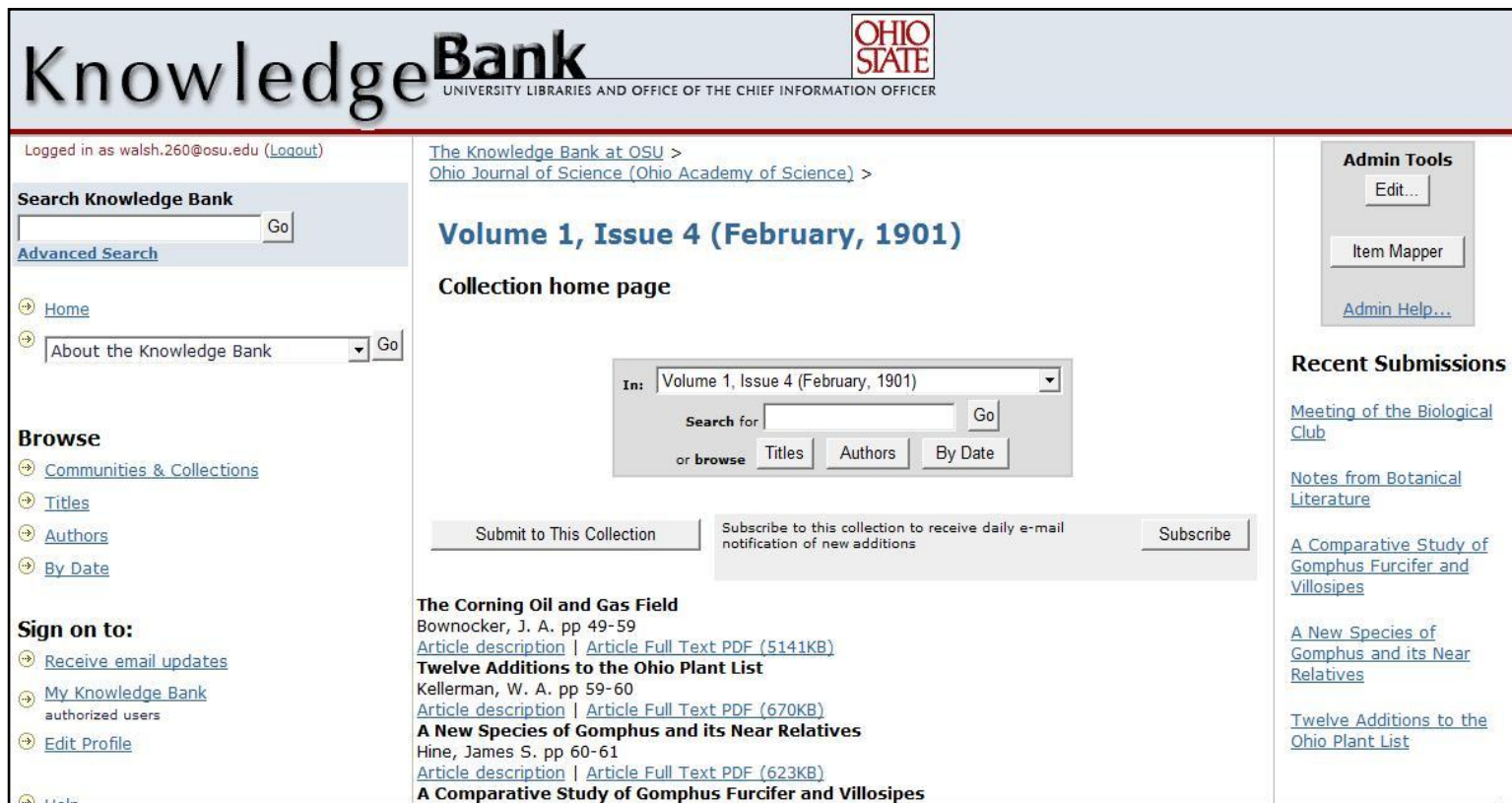
Series/Report No : The Ohio State University. Department of Comparative Studies Honors Theses; 2007

Keywords: nation
theory
self
subjectivity

URI: <http://hdl.handle.net/1811/28942>

Appears in Collections: [Arts and Sciences](#)

Customized Collection Displays



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Volume 1, Issue 4 (February, 1901)
Collection home page

In:
Search for
or browse

The Corning Oil and Gas Field
Bownocker, J. A. pp 49-59
[Article description](#) | [Article Full Text PDF \(514KB\)](#)
Twelve Additions to the Ohio Plant List
Kellerman, W. A. pp 59-60
[Article description](#) | [Article Full Text PDF \(670KB\)](#)
A New Species of Gomphus and its Near Relatives
Hine, James S. pp 60-61
[Article description](#) | [Article Full Text PDF \(623KB\)](#)
A Comparative Study of Gomphus Furcifer and Villosipes

Admin Tools

[Admin Help...](#)

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[Meeting of the Biological Club](#)
[Notes from Botanical Literature](#)
[A Comparative Study of Gomphus Furcifer and Villosipes](#)
[A New Species of Gomphus and its Near Relatives](#)
[Twelve Additions to the Ohio Plant List](#)

Batch Loading

1	File	Loc	dc.date	dc.identifier	dc.creator	dc.title	dc.description.abstract	dc.description	dc.type	dc.language
679	1982-W	1982	1982-WE-1	Mayants, L.S.	NEW ROTATION-VIBRATION HA	The conventional rotation-vibration Hamiltonian is shown to be appropriate on article				English
680	1982-W	1982	1982-WE-2	Natanson, G.A.	ON A CHOICE OF THE SEMIRIC	To satisfy the Eckart-Sayvetz conditio	ϵ_{13} G.A. Natanson, Molec. Phys., t	article		English
681	1982-W	1982	1982-WE-3	Chiu, Ying-Nan	APPLICATION OF HUCKEL-MOE	Linear combination of vibrational wave functions centered at the periodic pot	article			English
682	1982-W	1982	1982-WE-4	Hougen, Jon T.	THE USE OF HIGH-ORDER EXT	It is sometimes convenient when appl	ϵ_{13} B.M. DeKoven, K.H. Fung, D.H.	article		English
683				De Koven, B.M.						
684	1982-W	1982	1982-WE-5	Chin, Steven	QUANTITATIVE AB INITIO PRED	Infrared spectra of hydrogen banded s	ϵ_{13} Support from the National Sc	article		English
685				Person, Willis B.						
686	1982-W	1982	1982-WE-6	Ford, T.A.	PREDICTION OF THE INFRARE	The types of interactions experienced	ϵ_{13} Support from the National Sc	article		English
687				Person, Willis B.						
688	1982-W	1982	1982-WE-7	Chang, E.S.	THEORY OF IR SPECTRA FROM	Non-penetrating Rydberg states (with	ϵ_{13} Ch. Jungen and E. Miescher, C	article		English
689	1982-W	1982	1982-WE-8	Lehmann, K.K.	INTERPRETATION OF THE C-H	We have obtained photoacoustic spectra of the C-H overtones of HCN, SC	article			English
690				Scherer, G.J.						
691				Klemperer, William						
692	1982-W	1982	1982-WE-9	Scherer, G.J.	HIGH RESOLUTION OVERTONE	We have obtained photoacoustic spectra of several small polyatomic hydrid	article			English
693				Lehmann, K.K.						
694				Klemperer, William						
695	1982-W	1982	1982-WE-10	Pliva, J.	THE ϵ_{13} FUNDAMEN	The perpendicular band of the ϵ_{13} vibration ϵ_{13} of benzene	article			English
696				Johns, J.W.C.						
697	1982-W	1982	1982-WE-11	Lafferty, W.J.	ROTATIONAL STRUCTURE OF T	We have fully resolved the rotational fi	ϵ_{13} T.R. Dyke, B.J. Howard and M	article		English
698				Pine, A.S.						
699	1982-W	1982	1982-WE-12	Bunker, P.R.	BENDING TUNNELLING FORM F	We are interested in the "internal ro	ϵ_{13} P.K. Pearson, H.F. Schacffer III	article		English
700				Ross, S.C.						
701	1982-W	1982	1982-WF-1	Diem, M.	LONG RANGE VIBRATIONAL IN	Raman spectra of aqueous solutions	L.D.Barron, Adv. Infrared Raman Spec	article		English
702	1982-W	1982	1982-WF-1	Devore, T.C.	A RE-INVESTIGATION OF THE	A re-examination of the violet emissio	ϵ_{13} This work is supported by gra	article		English
703	1982-W	1982	1982-WF-2	Dixit, L.	GENERAL METHODS OF ANAL	An accute need may arise to develop practically convenient general method	article			English
704	1982-W	1982	1982-WF-2	Devore, T.C.	PARTIAL VIBRATIONAL ANALY	The visible emission spectrum of ^{44}Ti	ϵ_{13} C. Linton, Can. J.Phys. 50, 312	article		English
705	1982-W	1982	1982-WF-3	Byler, D. Michael	REVISED VIBRATIONAL ANALY	Vibrational data for C-deuterated meth	ϵ_{13} J. Traver, O. Saur, A. Janin,anc	article		English
706				Gerasimowicz, Walter V.						
707				Susi, Heino						
708	1982-W	1982	1982-WF-3	Dorko, Ernest A.	SPECTROSCOPIC ANALYSIS O	A gas flow tube reactor has been used to generate a chemiluminescent flan	article			English
709				Snyder, Steven R.						
710				Koym, Vernon R.						
711	1982-W	1982	1982-WF-4	Durig, J.R.	CONFORMATION BARRIERS TO	The infrared and Raman spectra have been recorded for the gaseous and so	article			English
712				Bist, H.D.						

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THEIR INFRARED SPECTRA</dcvalue>
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corresponding to  $\Delta J = +2$  arise from the contribution of the
intermolecular interaction by the anisotropic component of the
polarizability of a molecule in the quadrupole field of its collision
partner. U branch transitions corresponding to  $\Delta J = 14$  arise from
the hexadecapolar induction mechanism in the colliding pairs of
molecules. Collision-induced transitions  $\{S_{-1}\}(J) + \{S_{-0}\}(J)^{\wedge}1$ ,
 $\{U_{-1}\}(J)$  and  $\{Q_{-1}\}(J) + \{U_{-0}\}(J)^{\wedge}2$  in the infrared
fundamental band of  $H_2$  and  $\{S_{-2}\}(J) + \{S_{-0}\}(J)$ ,  $\{S_{-1}\}(J) +$ 
 $\{S_{-1}\}(J)$  and  $\{Q_{-1}\}(J) + \{U_{-1}\}(J)$  in the 1st overtone region of
 $H_2$  have been studied for high gas densities of normal  $H_2$  at 77
K. Some of the experimental results include those obtained with solid
normal- and para- hydrogen samples for the transitions in the
fundamental band of  $H_2$  at  $10\text{ K}^{\wedge}3$ . Present investigations also
include observation of double S transitions in the infrared fundamental
band of normal  $D_2$  at 77 K. Results of the analysis of the
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appropriate line-shape functions and using the available matrix elements
of the quadrupole moment, isotropic polarizability, anisotropy of
polarizability, and hexadecapole moment, will be discussed.</dcvalue>
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Prasad and S. P. Reddy, J. Chem. Phys. 72, 1716-1721 (1980).  $\{S_{-2}\}$ S. P.
Reddy, A. Sen. and R. D. G. Prasad, J. Chem. Phys. 72, 6102-6106 (1980).
 $\{S_{-3}\}$ R. D. G. Prasad, M. J. Clouter and S. P. Reddy, Phys. Rev. A 17,
1690-1694 (1978)</dcvalue>
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[Abstracts of OSU International Symposium on Molecular Spectroscopy 1980-1989 >](#)

Please use this identifier to cite or link to this item:

<http://hdl.handle.net/1811/29111>

Title: THE SIGNIFICANCE OF ANISTROPY OF POLARIZABILITY AND
HEXADECAPOLE MOMENT OF H_2 AND D_2 IN THEIR INFRARED
SPECTRA

Creators: van Nostrand, E.
Gillard, P.
Prasad, R.D.G.
Reddy, S. Paddi

Issue Date: 1982

Abstract: Double S transitions corresponding to $\Delta J = +2$ arise from the
contribution of the intermolecular interaction by the anisotropic
component of the polarizability of a molecule in the quadrupole field of its
collision partner. U branch transitions corresponding to $\Delta J = 14$
arise from the hexadecapolar induction mechanism in the colliding pairs of
molecules. Collision-induced transitions $\{S_{-1}\}(J) + \{S_{-0}\}(J)^{\wedge}1$,
 $\{U_{-1}\}(J)$ and $\{Q_{-1}\}(J) + \{U_{-0}\}(J)^{\wedge}2$ in the infrared
fundamental band of H_2 and $\{S_{-2}\}(J) + \{S_{-0}\}(J)$, $\{S_{-1}\}(J) +$
 $\{S_{-1}\}(J)$ and $\{Q_{-1}\}(J) + \{U_{-1}\}(J)$ in the 1st overtone region
of H_2 have been studied for high gas densities of normal H_2
at 77 K. Some of the experimental results include those obtained with
solid normal- and para- hydrogen samples for the transitions in the
fundamental band of H_2 at $10\text{ K}^{\wedge}3$. Present investigations also
include observation of double S transitions in the infrared fundamental
band of normal D_2 at 77 K. Results of the analysis of the absorption
profiles in the gas phase, carried out by assuming appropriate line-shape
functions and using the available matrix elements of the quadrupole
moment, isotropic polarizability, anisotropy of polarizability, and
hexadecapole moment, will be discussed.

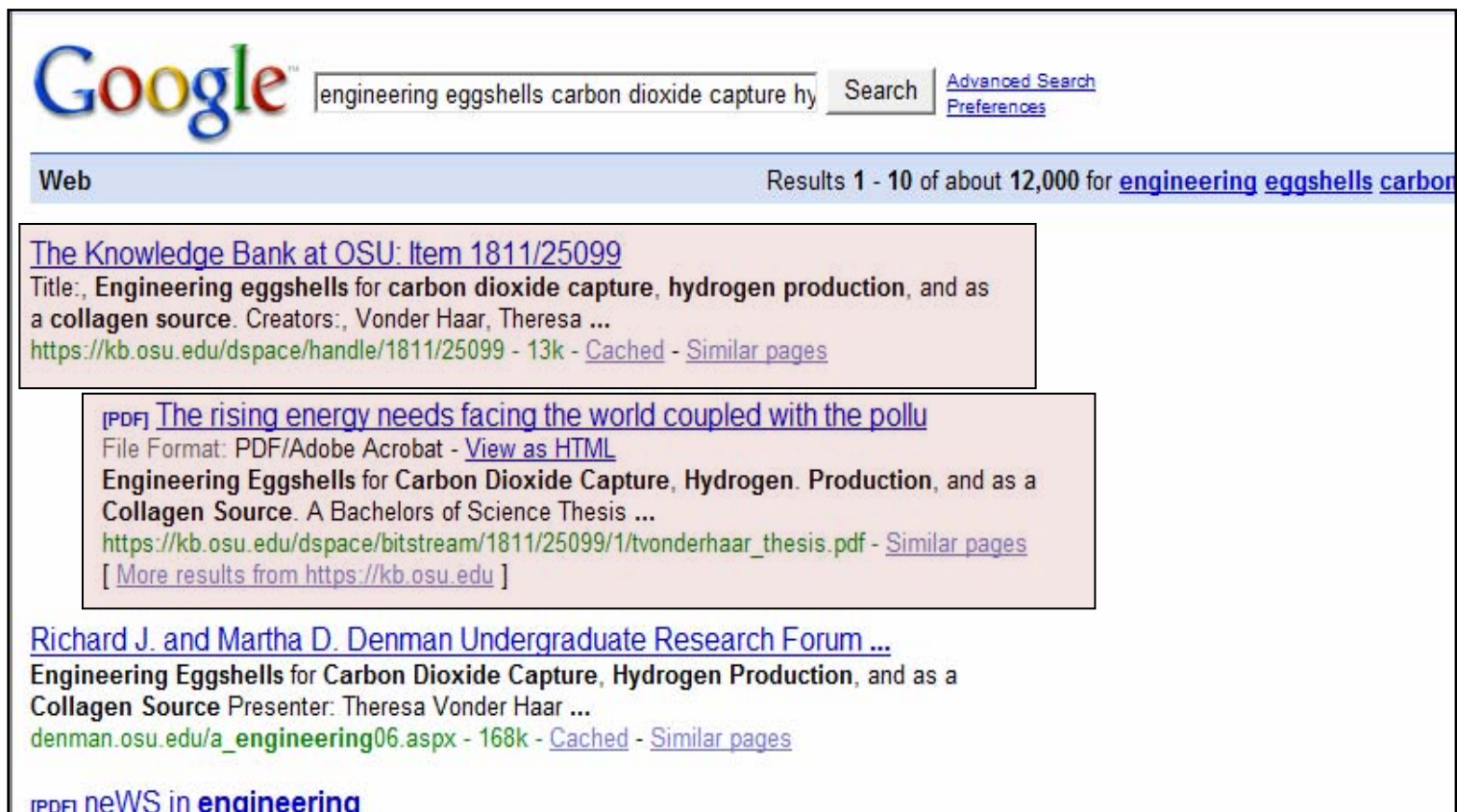
URI: <http://hdl.handle.net/1811/29111>

Other Identifiers: 1982-FA-14

Appears in Collections: [Abstracts of OSU International Symposium on Molecular Spectroscopy
1980-1989](#)

The Knowledge Bank in Other Contexts

The Knowledge Bank in Google



The screenshot shows a Google search interface. The search bar contains the text "engineering eggshells carbon dioxide capture hydrogen production and as a collagen source". The search results show "Results 1 - 10 of about 12,000 for engineering eggshells carbon dioxide capture hydrogen production and as a collagen source". The first result is titled "The Knowledge Bank at OSU: Item 1811/25099" and includes a description: "Title: Engineering eggshells for carbon dioxide capture, hydrogen production, and as a collagen source. Creators: Vonder Haar, Theresa ...". The second result is titled "The rising energy needs facing the world coupled with the pollution" and includes a description: "File Format: PDF/Adobe Acrobat - View as HTML. Engineering Eggshells for Carbon Dioxide Capture, Hydrogen Production, and as a Collagen Source. A Bachelors of Science Thesis ...". The third result is titled "Richard J. and Martha D. Denman Undergraduate Research Forum ..." and includes a description: "Engineering Eggshells for Carbon Dioxide Capture, Hydrogen Production, and as a Collagen Source Presenter: Theresa Vonder Haar ...".

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Web Results 1 - 10 of about 12,000 for [engineering eggshells carbon dioxide capture hydrogen production and as a collagen source](#)

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Title: Engineering eggshells for carbon dioxide capture, hydrogen production, and as a collagen source. Creators: Vonder Haar, Theresa ...
<https://kb.osu.edu/dspace/handle/1811/25099> - 13k - [Cached](#) - [Similar pages](#)

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Engineering Eggshells for Carbon Dioxide Capture, Hydrogen Production, and as a Collagen Source Presenter: Theresa Vonder Haar ...
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<https://kb.osu.edu/dspace/browse-title?bottom=1811%2F1234>

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14-Sep-2007, The Ohio State University's Institutional Repository: How Policy Informs Practice, Connell, Tschera Harkness; **Walsh, Maureen P.** ...
<https://kb.osu.edu/dspace/items-by-author?author=Connell%2C+Tschera+Harkness>

The Knowledge Bank in CIC Metadata Portal

The screenshot displays the CIC Metadata Portal interface. At the top, there is a purple header with the CIC logo and the text "Search CIC Library Resources". Below this is a navigation bar with links for "Simple search", "Advanced search", "Browse collections", and "Project Details". The main content area shows search results for "Ohio State University", indicating 293 records. Two records are displayed in detail:


Record 1 of 293

Title	A Biological Control Model of a One-Link Neuromusculoskeletal Sagittal Arm
Author/Creator	Lucas, Michael; Hemami, Hooshang
Subject	Biomechanics; Control; Nonlinear Systems; Dynamical System
Type	Thesis & dissertation
See also	The Ohio State University. Department of Electrical and Computer Engineering Honors Theses; 2006
Collection	Ohio State University Knowledge Bank

Record 2 of 293

Title	A Content Analysis of House and Garden Magazine Focusing on Environmental Responsibility and User Health and Safety Concerns Relative to Residential Interiors
Author/Creator	Nee, Justin; Zavotka, Susan
Subject	Design; Environmental; Sustainable; Green Design; content analysis; interior; health; safety
Type	Thesis & dissertation
See also	The Ohio State University. Department of Consumer Sciences Honors Theses; 2006
Collection	Ohio State University Knowledge Bank

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Results by Data Contributor

Knowledge Bank at Ohio State University
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Record 1 of 1
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Title	Engineering eggshells for carbon dioxide capture, hydrogen production, and as a collagen source
Author/Creator	Vonder Haar, Theresa
Contributor	Fan, Liang-Shih
Publisher	The Ohio State University
Year	2007-05-18T18:16:30Z
Year	2007-06
Resource Type	Thesis
Resource Format	1167191 bytes, application/pdf
Language	English
Note	The burning of fossil fuels leads to greenhouse gas (GHG) emissions, like carbon dioxide (CO ₂), which contribute to global warming. Current CO ₂ mitigation practices comprise of: [a] separation, [b] transportation, and [c] sequestration. Presently CO ₂ separation costs play a dominant role in the CO ₂ management scheme. The focus of this investigation is to effectively utilize chicken eggshells, a bio-composite material rich in calcium, as a sorbent for CO ₂ capture. The eggshells offer a unique combination of sorbent strength and reactivity while maintaining a low cost. The reaction mechanism consists of a series of carbonation-calcination reactions (CCR): calcium oxide (CaO) reacts with CO ₂ forming calcium carbonate (CaCO ₃), then calcining the shell forms a pure CO ₂ stream and regenerates CaO. Taking advantage of the eggshell's capacity to capture CO ₂ , can also lead to enhanced hydrogen (H ₂) production at high temperatures in a coal gasification process. Treating the eggshell with acetic acid at low concentrations not only facilitates membrane removal, but also shows an increase in the eggshell reactivity, which leads to increased CO ₂ capture as well as improved H ₂ production. In addition, the membrane contains collagen which is used in skin grafting, cornea repair, osteoporosis treatment, and other medical and surgical procedures. Overall, this study focuses on potential of treated eggshells as calcium-based sorbents for CO ₂ capture and H ₂ production and as source of collagen. Data shows that eggshells treated with acetic acid, not only enhances membrane removal from the shell but also leads to increased reactivity over multiple CCR cycles. The 2 molar 15 minute treated eggshell sample shows the highest capture capacity over time. Using eggshell as a sorbent for H ₂ production shows that 100% conversion of CO to H ₂ can be achieved. Advisor: LS Fan (Proprietary: Iyer M. V. and Fan. L-S "High Temperature CO ₂ Capture Using Engineered Eggshells" U.S. Patent Application No. 11/384,011 (March 2006))
Note	College of Engineering (Funding for 2006-2007 academic year for Honors Undergraduate Research Proposal)
Note	The Ohio State University. Department of Chemical and Biomolecular Engineering Honors Theses; 2007
Subject	carbon dioxide; hydrogen; eggshell; collagen
URL	http://hdl.handle.net/1811/25099
Data Contributor	Knowledge Bank at Ohio State University (OSU)

Shareable Metadata?

Can You Name This Harvested Resource?



The screenshot shows the OAlster interface. The header features the OAlster logo with the tagline "...find the pearls". A navigation bar includes links for Home, Search, Help, About, Using OAlster, and News. On the left, a sidebar indicates "Knowledge Bank at Ohio State University (OSU)" with "1 record". The main content area displays "Record 1 of 1" with a link to "add to bookbag". Below this is a table of metadata for a newsletter.

Title	October 17, 2006
Publisher	Ohio State University Libraries
Year	2007-06-11T21:17:29Z
Year	2006-10-17
Resource Type	Newsletter
Resource Format	46780 bytes, application/pdf
Language	English
Subject	Ohio State University. Libraries.
URL	http://hdl.handle.net/1811/28497
Data Contributor	Knowledge Bank at Ohio State University (OSU)

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[NewsNotes](#) >
[QuickNotes](#) >

Please use this identifier to cite or link to this item:

<http://hdl.handle.net/1811/28497>

Title: October 17, 2006

Keywords: Ohio State University. Libraries.

Issue Date: 17-Oct-2006

Publisher: Ohio State University Libraries

URI: <http://hdl.handle.net/1811/28497>

Appears in Collections: [QuickNotes](#)

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<http://hdl.handle.net/1811/28497>

Title: QuickNotes: October 17, 2006

Creators: Ohio State University. Libraries

Keywords: Ohio State University -- Libraries -- Newsletters

Issue Date: 17-Oct-2006

Publisher: Ohio State University Libraries


URI: <http://hdl.handle.net/1811/28497>

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qn061017.pdf		45Kb	Adobe PDF View/Open

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Results by Data Contributor

Knowledge Bank at Ohio State University (OSU)
[50 records](#)

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Title	QuickNotes: October 17, 2006
Author/Creator	Ohio State University. Libraries
Publisher	Ohio State University Libraries
Year	2007-06-11T21:17:29Z
Year	2006-10-17
Resource Type	Newsletter
Resource Format	46780 bytes, application/pdf
Language	English
Subject	Ohio State University -- Libraries -- Newsletters
URL	http://hdl.handle.net/1811/28497
Data Contributor	Knowledge Bank at Ohio State University (OSU)
Score	100

Quality Metadata?

[The Knowledge Bank at OSU](#)



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A'Hearn, M.F.
Aaron, Daniel, 1912-
Abbas, M. M.
Abbate, M. J.
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Abbate, S.
ABBATE, SERGIO
Abbate, Sergio
Abbott, Maxine L.
Abbott, Ralph E.
Abbott, Richard H.
ABBOUTI, TEMSAMANI M.
Abbouti, Temsamani M.
ABDEL, SHAFY HUSSEIN I.
Abdel-Halim, F.M.
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Abdullah, Mohammad
ABDULNUR, SUHEIL F.
Abe, Hisashi

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Sztainbuch, I.
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Szymanski, H.
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T.SHIMIZU
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Tabisz, G. C.
TABISZ, G.C.
Tabisz, G.C.
TABOR, WILLIAM J.
Tack, L. M
Tack, L. M.
TACK, L.M.
Tack, Lesley M.
Tack, Leslie M.
Tackett, Brandon S.
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Title: Subjectivity and Nation: The Construction of Self in I Saw Ramallah and Passage to Dusk

Creators: Kim, Philip

Advisor: Berman, Nina

Issue Date: Aug-2007

Abstract: The subjective nature of the construction of the self allows for the two texts which I critique, I Saw Ramallah and Passage to Dusk, to resist notions of an objective nation which imposes standards and norms ultimately resulting in conflicts of difference.

Requested Embargo?: No embargo

Series/Report No : The Ohio State University. Department of Comparative Studies Honors Theses; 2007

Keywords: nation
theory
self
subjectivity

URI: <http://hdl.handle.net/1811/28942>

Appears in Collections: [Arts and Sciences](#)

Thank You

Maureen P. Walsh walsh.260@osu.edu